

Planetary Forecaster
What is Temperature and How Does it Differ Across Earth's Surface?
LS 1.2
Measuring the Temperature

What is temperature?

Read page 11, then write a definition for *temperature* in your own words.

Compare the kinetic energy of air molecules in July and January in Wisconsin.

How Do Scientists Measure Temperature

Read pages 12 and 13, then answer the *Stop and Think* questions.

Stop and Think

1. What makes some air feel hotter than other air?

2. What is the relationship between temperature and kinetic energy?

3. Why are the marks on a thermometer evenly spaced?

4. Why does the length that the liquid extends into the tube of a thermometer give you a measure of temperature?

5. What areas of Earth do you think have higher average surface temperatures? What areas do you think have lower average surface temperatures? **Give your reasoning.**